

M3-ID 3D Printer



PRINTER & PRINTING PROPERTIES	
Technology	Fused Filament Fabrication (FFF)
Print Head	Independent Dual Extruders, Direct (non-Bowden)
Build Volume	Head 1 = 203 X 232 X 203 mm, Head 2 = 180 X 232 X 203 mm Mimeo Mode = 100 X 232 X 203 mm
Filament diameter	1.75 mm
Layer resolution (with 0.35 mm nozzle)	0.020 - 0.300 mm (20 - 300 μ m)
Movement resolution (X and Y Axes)	0.00125 mm (1.25 μ m) per micro-step.
Movement resolution (Z Axis)	0.001 mm (1 μ m) per micro-step.
Print head travel speed range	30 - 450 mm/s
Maximum extruder speed	0.35 mm nozzle: up to 18 mm ³ /s
Build plate	Borosilicate glass plate with polyimide film
Build plate temperature	20 - 130 °C (enclosed), 20 - 120 °C (not enclosed) at 25 °C ambient conditions
Assisted leveling	Yes, Touch Probe used for automatic and manual adjustments
Printable materials	ABS, HIPS, Nylon, PET-G, PET-T, PLA, polycarbonate, PVA, , TPE, TPU, metal composites, wood composites, carbon fiber composites, and more.
Nozzle Type & Diameter	Brass 0.35 mm standard, 0.25, 0.5, 0.75 available. Stainless steel 0.35, 0.5 mm available.
Nozzle Temperature	180 - 300 °C
Nozzle heat up time	< 2 minutes (220 °C)
Build plate heat up time	< 4 minutes (70 °C)
Operating Sound	< 65 dBA
Connectivity	Wi-Fi, LAN

PHYSICAL DIMENSIONS	
Dimensions with spool & full range of motion	533 mm (21") x 610 mm (24") x 420 mm (16.5")
Unit weight	13.5 kg (29.5 lbs)
Shipping weight	21.5 kg (47 lbs)
Shipping box dimensions	535 mm (21") x 535 mm (21") x 635 mm (25")
POWER	
AC Input	100 - 120 V (4 A)/220 - 240 V (2 A), 47 - 63 Hz
Power requirements / consumption	24 V DC @ 15 A / 360 W maximum
SOFTWARE	
Supplied software	Simplify 3D 4.0, OctoPrint for MakerGear / M3 Quickcheck
Compatible Software	A wide variety of free/commercial modeling, slicing, and
Supported OS	MacOS, Windows, Linux, iOS, Android
File types	STL, OBJ, gCode
Supported Network Protocols	WPA2 PSK